

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A method for communicating, comprising the steps of:
 - (1) identifying a radio frequency band from the electromagnetic (EM) spectrum as a band of interest;
 - (2) identifying a channel within said band of interest as a channel/band combination;
 - (3) filtering said EM spectrum thereby passing said channel/band combination;
 - (4) aliasing said channel/band combination according to an aliasing signal, said aliasing signal having an aliasing frequency, said aliasing frequency being a function of a clock signal, ~~wherein said aliasing transfers a portion of energy contained in a portion of the carrier signal,~~ thereby generating a down-converted baseband signal including said channel/band combination; and
 - (5) filtering said down-converted baseband signal , thereby passing said channel as a filtered down-converted baseband signal.
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)

5. (Previously presented) The method of claim 1, wherein said clock signal has a clock

frequency, the method further comprising the step of:

(6) adjusting said clock frequency for said channel/band combination so that said aliasing frequency is suitable for down-converting said channel/band combination.

6. (Original) The method of claim 1, further comprising the step of:

(6) decoding said filtered down-converted signal to create a decoded down-converted signal.

7. (Previously presented) A system for communicating, comprising:

a controller that operates under the direction of a user, and that issues a first command signal and a second command signal;

a controller signal generator to generate a control signal according to said first command signal; and

a down-converting and filtering (UDF) module to filter and down-convert one or more input signals based on said control signal and according to said second command signal, said UDF to alias said filtered input signal according to an aliasing signal, said aliasing signal having an aliasing frequency, said aliasing frequency being a function of a clock signal, and thereby output a channel filtered and down-converted signal.

8. (Original) The system of claim 7, further comprising a decoder to generate a decoded output signal from said channel filtered and down-converted signal.

9. (Original) The system of claim 7, wherein said control signal generator is a voltage controlled oscillator.

10. (Cancelled)

11. (Cancelled)

12. (Original) The system of claim 8, wherein said controller issues a third command signal, and wherein said decoder operates according to said third command signal.

13. (Currently amended) A method of communicating, comprising the steps of:

- (1) identifying one or more radio frequency bands from the electromagnetic spectrum as bands of interest;
- (2) identifying one or more channels within each of said bands of interest as channel/band combinations;
- (3) identifying one of said channel/band combinations as a monitored channel/band combination;
- (4) causing an input filter to operate with said monitored channel/band combination, and filtering an input signal using said input filter, to create a filtered signal having a frequency within said monitored channel/band combination;
- (5) aliasing said filtered signal according to an aliasing signal, said aliasing signal having an aliasing frequency, said aliasing frequency being a function of a clock signal, ~~wherein said aliasing transfers a portion of energy contained in a portion of the carrier signal,~~ thereby generating a down-converted baseband signal; and
- (6) causing an output filter to operate with said monitored channel/band combination, and filtering said down-converted baseband signal using said output filter , thereby generating a filtered down-converted baseband signal.

14. (Cancelled)

15. (Previously presented) The method of claim 13, wherein said clock signal has a clock

frequency, the method further comprising the step of:

(7) adjusting said clock frequency for said monitored channel/band combination so that said aliasing frequency is suitable for down-converting said channel/band combination.

16. (Previously presented) The method of claim 13, further comprising the steps of:

(7) selecting a decoder to be a selected decoder, said selected decoder being configured to operate with said monitored channel/band combination; and

(8) using said selected decoder to create a decoded down-converted signal from said filtered down-converted signal.

17. (Previously presented) The method of claim 13, further comprising the steps of:

(7) repeating steps (3) through (6).

18. (Cancelled)

19. (Cancelled)

20. (Currently amended) A system for communicating, comprising:

an input filter module comprised of one or more input filters to filter one or more input signals so as to generate one or more filtered input signals;

a universal frequency translator to down-convert at least one of said one or more filtered input signals to generate a down-converted baseband signal, said universal

frequency translator comprising means for aliasing said filtered input signal according to an aliasing signal, said aliasing signal having an aliasing frequency, said aliasing frequency being a function of a clock signal, ~~wherein said means for aliasing transfers a portion of energy contained in a portion of the carrier signal,~~ thereby generating said down-converted baseband signal; and

an output filter module comprised of one or more output filters to filter said down-converted baseband signal.

21. (Original) The system of claim 20, further comprising a control signal generator that outputs a control signal, wherein said universal frequency translator operates according to said control signal.

22. (Original) The system of claim 21, wherein said control signal generator is a voltage controlled oscillator.

23. (Original) The system of claim 21, further comprising a decoder module comprised of one or more decoders, wherein said decoder module decodes said filtered down-converted signal to generate a decoded output signal.

24. (Original) The system of claim 23, further comprising a controller that operates under the direction of a user, said controller to issue at least a first command signal, a second command signal, a third command signal, a fourth command signal, and a fifth command signal, wherein

said input filter module operates according to said first command signal,

said universal frequency translator operates according to said second command signal,

said control signal generator operates according to said third command signal,
said output filter module operates according to said fourth command signal, and
said decoder module operates according to said fifth command signal.

25. (Cancelled)

26. (Cancelled).